

## A NETWORK RESOURCE ASSIGNMENT SYSTEM AND METHOD

ABSTRACT OF THE INVENTION

The present invention is a system and method for facilitating efficient  
5 assignment of networked resources. In one embodiment, a resource  
assignment method is utilized to assist network resource assignment  
operations. The resource assignment method establishes a resource model,  
acquires an application model, and utilizes a mapping process to map said  
application model onto said resource model. In one exemplary  
10 implementation the resources are assigned to optimize the assignment of  
resources with respect to application requirements and desired objectives  
(e.g., minimization of the average communication delay inside a service  
core). In one exemplary implementation, a mapping process of a resource  
assignment method is utilized to map an application onto part of IDC  
15 topology.